Southern Nuclear

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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of 2.3.09.04b [Index Number 428]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.3.09.04b [Index Number 428] to verify that the Containment Hydrogen Control System (VLS) igniters energize after receiving a signal from the Diverse Actuation System (DAS). The closure process for this ITAAC is based on the guidance described in NEI 08-01, "Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52", which is endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,

Kelli Roberts for JMC

Jamie M. Coleman
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.09.04b [Index Number 428]

JMC/KIK/sfr

cc: Regional Administrator, Region II
Director, Office of Nuclear Reactor Regulation (NRR)
Director, Vogtle Project Office NRR
Senior Resident Inspector – Vogtle 3 & 4

Southern Nuclear Operating Company
ND-23-0568
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.09.04b [Index Number 428]

ITAAC Statement

Design Commitment

4.b) The components identified in Table 2.3.9-2 perform the listed function after receiving a manual signal from DAS.

Inspections/Tests/Analyses

Testing will be performed on the igniters using the DAS controls.

Acceptance Criteria

The igniters energize after receiving a signal from DAS.

ITAAC Determination Basis

Testing was performed in accordance with Unit 4 preoperational test procedures listed in Reference 1, to confirm the components identified in Combined License (COL) Appendix C Table 2.3.9-2 (Attachment A) performed the listed function after receiving a manual signal from the Diverse Actuation System (DAS).

Testing was performed in two parts to verify the igniters energize after receiving a signal from DAS. In the first preoperational test procedure documented in Reference 1, Hydrogen Igniter Control Switches 4-DAS-HS213 and 4-DAS-HS214, at the DAS control panel in the Main Control Room (MCR) were switched to the ON position. A digital multimeter was then used to verify the Containment Hydrogen Igniter control relays in Hydrogen Igniter Control Panels 4-VLS-JC-001 (Group 1), and 4-VLS-JC-002 (Group 2), were energized. The Hydrogen Igniter Control Switches were then switched to the OFF position.

In the second part, the other preoperational test procedure documented in Reference 2 placed Hydrogen Igniters switches VLS-EH-GR1 (Group 1) and VLS-EH-GR2 (Group 2) to the ON position. The same relays verified as energized in the first part of the test were also verified as energized in this procedure; relays in Hydrogen Igniter Control Panels 4-VLS-JC-001 (Group 1), and 4-VLS-JC-002 (Group 2). An inspection verified that each of the sixty-six igniters identified in Attachment A were energized by recording an overall increase of igniter temperatures at 10 second intervals for 90 seconds. Switches VLS-EH-GR1 (Group 1) and VLS-EH-GR2 (Group 2), were then placed to the OFF position.

Unit 4 preoperational test results as identified in References 1 and 2 confirmed the igniters energize after receiving a signal from DAS.

References 1 and 2 are available for NRC inspection as part of Unit 4 ITAAC 2.3.09.04b Completion Package (Reference 3).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review is documented in the ITAAC Completion Package for ITAAC 2.3.09.04b (Reference 3) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.09.04b was performed for VEGP Unit 4 and that the prescribed acceptance criteria were met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV4-VLS-ITR-800428, Rev. 0, “Unit 4 Containment Hydrogen Control (VLS) Igniter Functionality Test from Diverse Actuation System (DAS): ITAAC 2.3.09.04b, Item 4.b) NRC Index Number: 428”
2. SV4-VLS-ITR-801424, Rev. 0, “Unit 4 Containment Hydrogen Control (VLS) Igniter Functionality Test and Parameter Displays: ITAAC 2.3.09.03.ii, Items 3.ii),4.a), and 5 NRC Index Number: 424”
3. 2.3.09.04b-U4-CP-Rev0 “ITAAC Completion Package”

Attachment A

***Excerpt from COL Appendix C Table 2.3.9-2**

*Equipment Name	*Tag Number	*Function	*Power Group Number
Hydrogen Igniter 01	VLS-EH-01	Energize	1
Hydrogen Igniter 02	VLS-EH-02	Energize	2
Hydrogen Igniter 03	VLS-EH-03	Energize	1
Hydrogen Igniter 04	VLS-EH-04	Energize	2
Hydrogen Igniter 05	VLS-EH-05	Energize	1
Hydrogen Igniter 06	VLS-EH-06	Energize	2
Hydrogen Igniter 07	VLS-EH-07	Energize	2
Hydrogen Igniter 08	VLS-EH-08	Energize	1
Hydrogen Igniter 09	VLS-EH-09	Energize	1
Hydrogen Igniter 10	VLS-EH-10	Energize	2
Hydrogen Igniter 11	VLS-EH-11	Energize	2
Hydrogen Igniter 12	VLS-EH-12	Energize	1
Hydrogen Igniter 13	VLS-EH-13	Energize	1
Hydrogen Igniter 14	VLS-EH-14	Energize	2
Hydrogen Igniter 15	VLS-EH-15	Energize	2
Hydrogen Igniter 16	VLS-EH-16	Energize	1
Hydrogen Igniter 17	VLS-EH-17	Energize	2
Hydrogen Igniter 18	VLS-EH-18	Energize	1
Hydrogen Igniter 19	VLS-EH-19	Energize	2
Hydrogen Igniter 20	VLS-EH-20	Energize	2
Hydrogen Igniter 21	VLS-EH-21	Energize	1
Hydrogen Igniter 22	VLS-EH-22	Energize	1
Hydrogen Igniter 23	VLS-EH-23	Energize	2
Hydrogen Igniter 24	VLS-EH-24	Energize	2
Hydrogen Igniter 25	VLS-EH-25	Energize	2
Hydrogen Igniter 26	VLS-EH-26	Energize	2
Hydrogen Igniter 27	VLS-EH-27	Energize	1
Hydrogen Igniter 28	VLS-EH-28	Energize	1
Hydrogen Igniter 29	VLS-EH-29	Energize	1
Hydrogen Igniter 30	VLS-EH-30	Energize	2
Hydrogen Igniter 31	VLS-EH-31	Energize	1
Hydrogen Igniter 32	VLS-EH-32	Energize	1
Hydrogen Igniter 33	VLS-EH-33	Energize	2
Hydrogen Igniter 34	VLS-EH-34	Energize	1
Hydrogen Igniter 35	VLS-EH-35	Energize	1
Hydrogen Igniter 36	VLS-EH-36	Energize	2
Hydrogen Igniter 37	VLS-EH-37	Energize	1

Attachment A (cont.)

***Excerpt from COL Appendix C Table 2.3.9-2**

*Equipment Name	*Tag Number`	*Function	*Power Group Number
Hydrogen Igniter 38	VLS-EH-38	Energize	2
Hydrogen Igniter 39	VLS-EH-39	Energize	1
Hydrogen Igniter 40	VLS-EH-40	Energize	2
Hydrogen Igniter 41	VLS-EH-41	Energize	2
Hydrogen Igniter 42	VLS-EH-42	Energize	1
Hydrogen Igniter 43	VLS-EH-43	Energize	1
Hydrogen Igniter 44	VLS-EH-44	Energize	1
Hydrogen Igniter 45	VLS-EH-45	Energize	2
Hydrogen Igniter 46	VLS-EH-46	Energize	2
Hydrogen Igniter 47	VLS-EH-47	Energize	1
Hydrogen Igniter 48	VLS-EH-48	Energize	2
Hydrogen Igniter 49	VLS-EH-49	Energize	1
Hydrogen Igniter 50	VLS-EH-50	Energize	2
Hydrogen Igniter 51	VLS-EH-51	Energize	1
Hydrogen Igniter 52	VLS-EH-52	Energize	2
Hydrogen Igniter 53	VLS-EH-53	Energize	2
Hydrogen Igniter 54	VLS-EH-54	Energize	1
Hydrogen Igniter 55	VLS-EH-55	Energize	1
Hydrogen Igniter 56	VLS-EH-56	Energize	2
Hydrogen Igniter 57	VLS-EH-57	Energize	2
Hydrogen Igniter 58	VLS-EH-58	Energize	1
Hydrogen Igniter 59	VLS-EH-59	Energize	2
Hydrogen Igniter 60	VLS-EH-60	Energize	1
Hydrogen Igniter 61	VLS-EH-61	Energize	1
Hydrogen Igniter 62	VLS-EH-62	Energize	2
Hydrogen Igniter 63	VLS-EH-63	Energize	1
Hydrogen Igniter 64	VLS-EH-64	Energize	2
Hydrogen Igniter 65	VLS-EH-65	Energize	1
Hydrogen Igniter 66	VLS-EH-66	Energize	2